

# Quick Start Guide - VGA Adapter HAT

## 1. Place the HAT:

Place the VGA Adapter HAT on top of the Raspberry Pi (2, B+ & A+).

Connect the VGA cable from the (VGA) display monitor to the VGA connector on VGA Adapter HAT.

Connect the Micro USB connector from the Power Supply(i.e. 5V 2A) to the Raspberry Pi (2, B+ & A+).

## 2. Update to the latest kernel and firmware:

```
sudo rpi-update
```

## 3. Change the default pin configuration:

The [dt-blob.bin](#) is used to configure the binary blob (Videocore) at boot time. For VGA Adapter HAT, a [device tree source \(dts\) file](#) is used to configure GPIO pins 2-21 for DPI function.

Simply copy the converted device tree blob (dtb) file, [dt-blob-dpi.bin](#) to boot partition of microSD card and rename it to *dt-blob.bin*:

## 4. Enable DPI LCD and default display:

Add the following to */boot/config.txt*:

```
# Enable DPI LCD and default display
```

```
enable_dpi_lcd=1
```

```
display_default_lcd=1
```

Reboot the Raspberry Pi. You should now be able to boot with *VGA resolution (i.e. 640x480 60Hz)* on VGA connector.

## **5. Change the DPI resolution:**

Change the DPI resolution by adding the following and reboot:

# For 1920x1080 60Hz (1080p)

```
dpi_group=2
```

```
dpi_mode=82
```

or

# For 1024x768 60Hz

```
dpi_group=2
```

```
dpi_mode=16
```

or

# For 800x600 60Hz

```
dpi_group=2
```

```
dpi_mode=9
```

Note that these DPI config settings are identical to the HDMI config settings (i.e. `hdmi_group` & `hdmi_mode`).